



Approval

TFT LCD Approval Specification

MODEL NO.: N154I4-P03

Customer : _____
Approved by : _____
Note : _____

記錄	工作	審核	角色	投票
2007-08-07 19:17:34 CST	PMMD Director	cs_lee(李志聖 /56510/44926)	Director	Accept

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**Approval****REVISION HISTORY**

Version	Date	Section	Description
Ver. 2.0	Aug, 01 '07	-	N154I4-P03 Approval Specifications was first issued .

1. GENERAL DESCRIPTION

1.1 OVERVIEW

The N154I4-P02 is a 15.4-inch TFT LCD cell with driver ICs and a 30-pin-and-1ch-LVDS circuit board.

The product supports 1280 x 800 WXGA mode and can display up to 262,144 colors. The backlight unit is not built in.

1.2 FEATURES

- WXGA (1280 x 800 pixels) resolution
- DE (Data Enable) only mode
- 3.3V LVDS (Low Voltage Differential Signaling) interface
- RoHS Compliance

1.3 APPLICATION

- TFT LCD Notebook
- TFT LCD Monitor
- TFT LCD TV

1.4 GENERAL SPECIFICATIONS

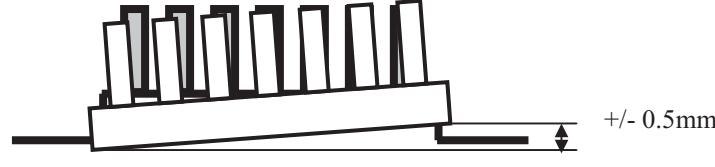
Item	Specification	Unit	Note
Active Area	331.2 (H) x 207.0 (V) (15.4" diagonal)	mm	(1)
Driver Element	a-si TFT active matrix	-	-
Pixel Number	1280 x R.G.B. x 800	pixel	-
Pixel Pitch	0.2588 (H) x 0.2588 (V)	mm	-
Pixel Arrangement	RGB vertical stripe	-	-
Display Colors	262,144	color	-
Transmissive Mode	Normally White	-	-
Surface Treatment	Hard coating (3H), TFT with BEF, Glare	-	-

1.5 MECHANICAL SPECIFICATIONS

Item	Min.	Typ.	Max.	Unit	Note
Weight	-	272.8	282.8	g	-
I/F connector mounting position	The mounting inclination of the connector makes the screen center within $\pm 0.5\text{mm}$ as the horizontal.				(2)

Note (1) Please refer to the attached drawings for more information of front and back outline dimensions.

(2) Connector mounting position



2. ABSOLUTE MAXIMUM RATINGS

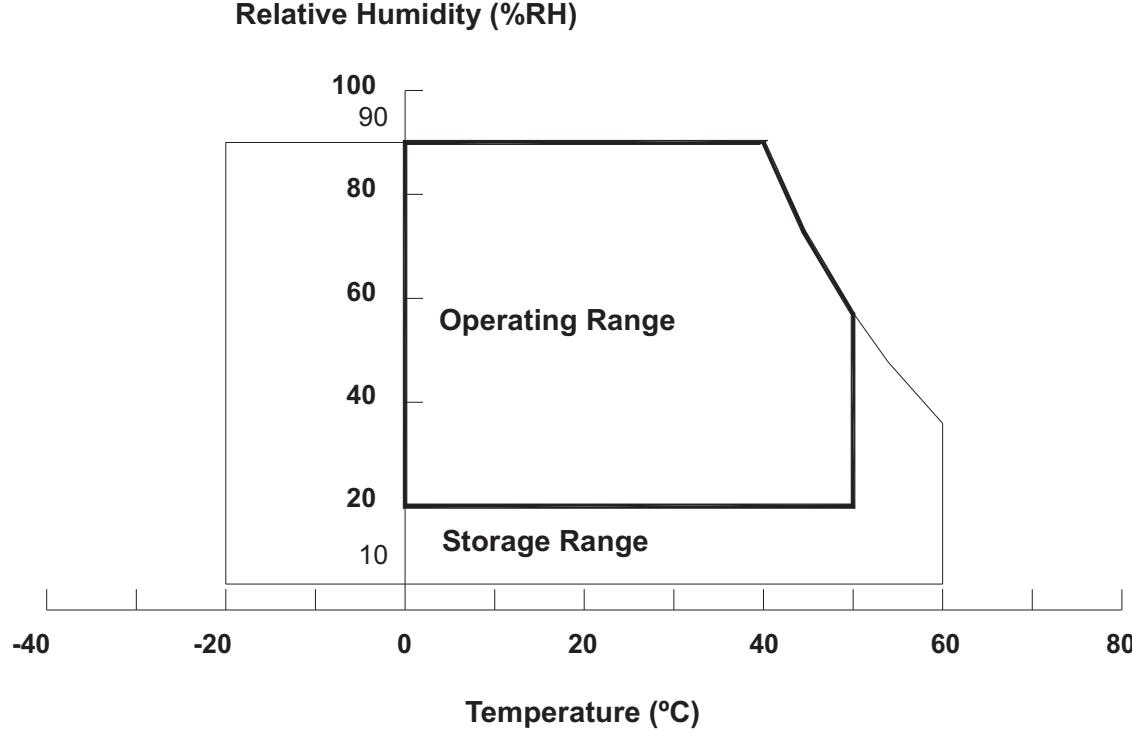
2.1 ABSOLUTE RATINGS OF ENVIRONMENT (BASED ON CMO MODULE M190E5-L0A)

Item	Symbol	Value		Unit	Note
		Min.	Max.		
Storage Temperature	T_{ST}	-20	+60	°C	(1)
Operating Ambient Temperature	T_{OP}	0	+50	°C	(1), (2)

Note (1) Temperature and relative humidity range is shown in the figure below.

- (a) 90 %RH Max. ($T_a \leq 40$ °C).
- (b) Wet-bulb temperature should be 39 °C Max. ($T_a > 40$ °C).
- (c) No condensation.

Note (2) The temperature of panel surface should be 0 °C Min. and 60 °C Max.



2.2 ABSOLUTE RATINGS OF ENVIRONMENT (OPEN CELL)

High temperature or humidity may reduce the performance of panel. Please store LCD panel within the specified storage conditions.

Storage Condition: With packing.

Storage temperature range: 25 ± 5 °C.

Storage humidity range: $50 \pm 10\%$ RH.

Shelf life: 30days

2.3 ELECTRICAL ABSOLUTE RATINGS

Item	Symbol	Value		Unit	Note
		Min	Max		
Power Supply Voltage	V_{CC}	-0.3	+4.0	V	(1)
Logic Input Voltage	V_{IN}	-0.3	$V_{CC}+0.3$	V	

Note (1) Permanent damage to the device may occur if maximum values are exceeded. Function operation should be restricted to the conditions described under Normal Operating Conditions.

3. ELECTRICAL CHARACTERISTICS

3.1 TFT LCD MODULE

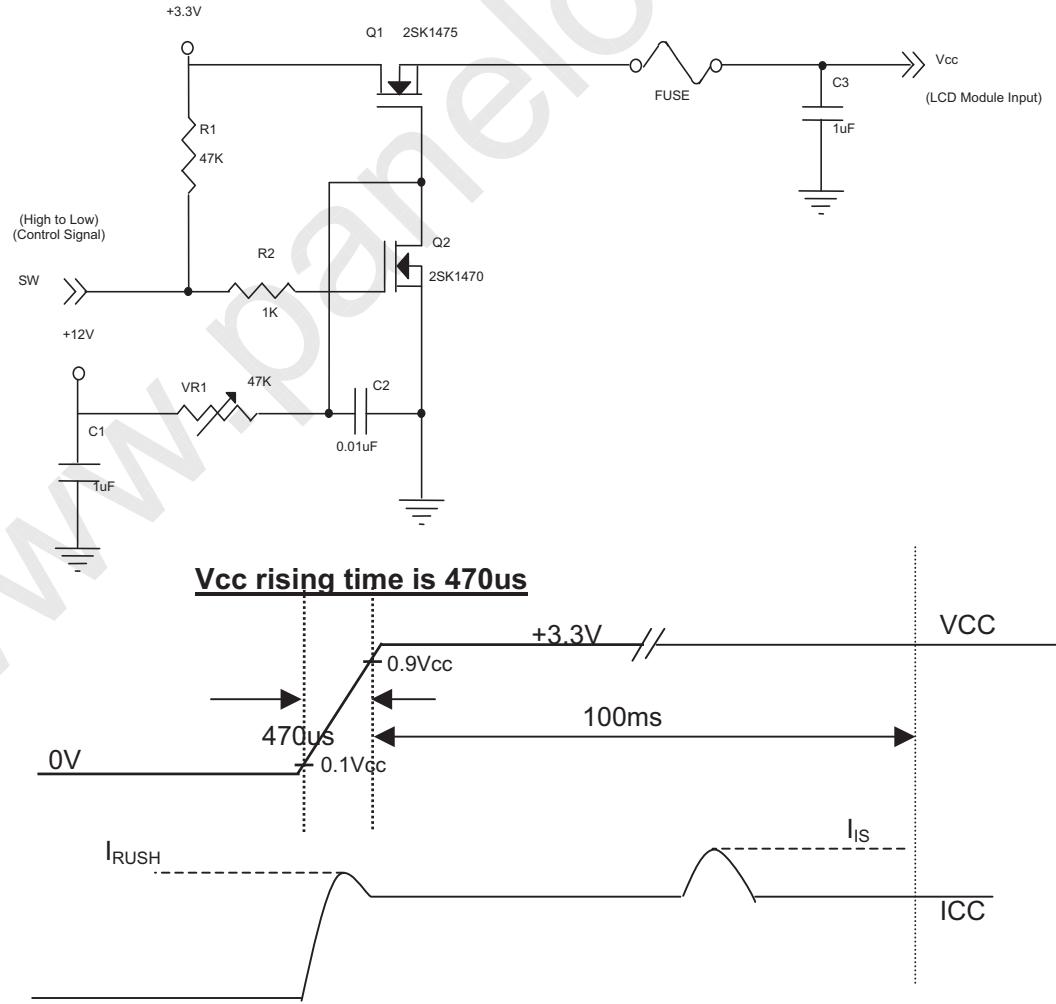
Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
Power Supply Voltage	V _{CC}	3.0	3.3	3.6	V	-
Permissive Ripple Voltage	V _{RP}	-	50	-	mV	-
Rush Current	I _{RUSH}	-	-	1.5	A	(2)
Initial Stage Current	I _{IS}	-	-	1.0	A	(2)
Power Supply Current	I _{CC}	-	330	390	mA	(3)a
		-	460	580	mA	(3)b
LVDS Differential Input High Threshold	V _{TH(LVDS)}	-	-	+100	mV	(4), V _{CM} =1.2V
LVDS Differential Input Low Threshold	V _{TL(LVDS)}	-100	-	-	mV	(4) V _{CM} =1.2V
LVDS Common Mode Voltage	V _{CM}	1.125	-	1.375	V	(4)
LVDS Differential Input Voltage	V _{ID}	100	-	600	mV	(4)
Terminating Resistor	R _T	-	100	-	Ohm	

Note (1) The ambient temperature is Ta = 25 ± 2 °C.

Note (2) I_{RUSH}: the maximum current when VCC is rising

I_{IS}: the maximum current of the first 100ms after power-on

Measurement Conditions: Shown as the following figure. Test pattern: black.



Note (3) The specified power supply current is under the conditions at $V_{cc} = 3.3$ V, $T_a = 25 \pm 2$ °C, $f_v = 60$ Hz, whereas a power dissipation check pattern below is displayed.

a. White Pattern



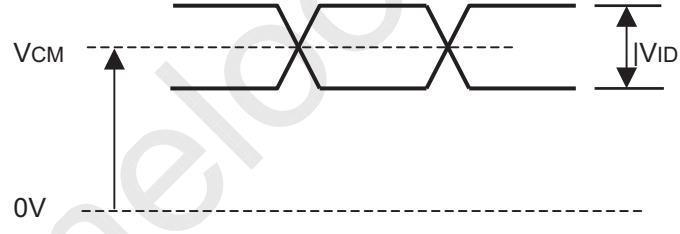
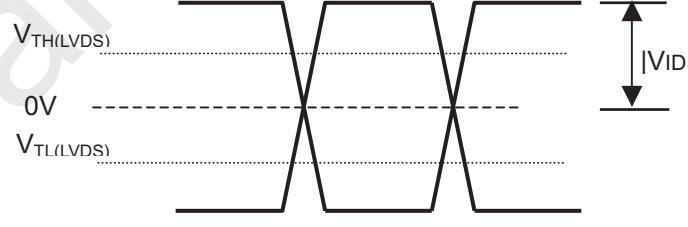
Active Area

b. Black Pattern



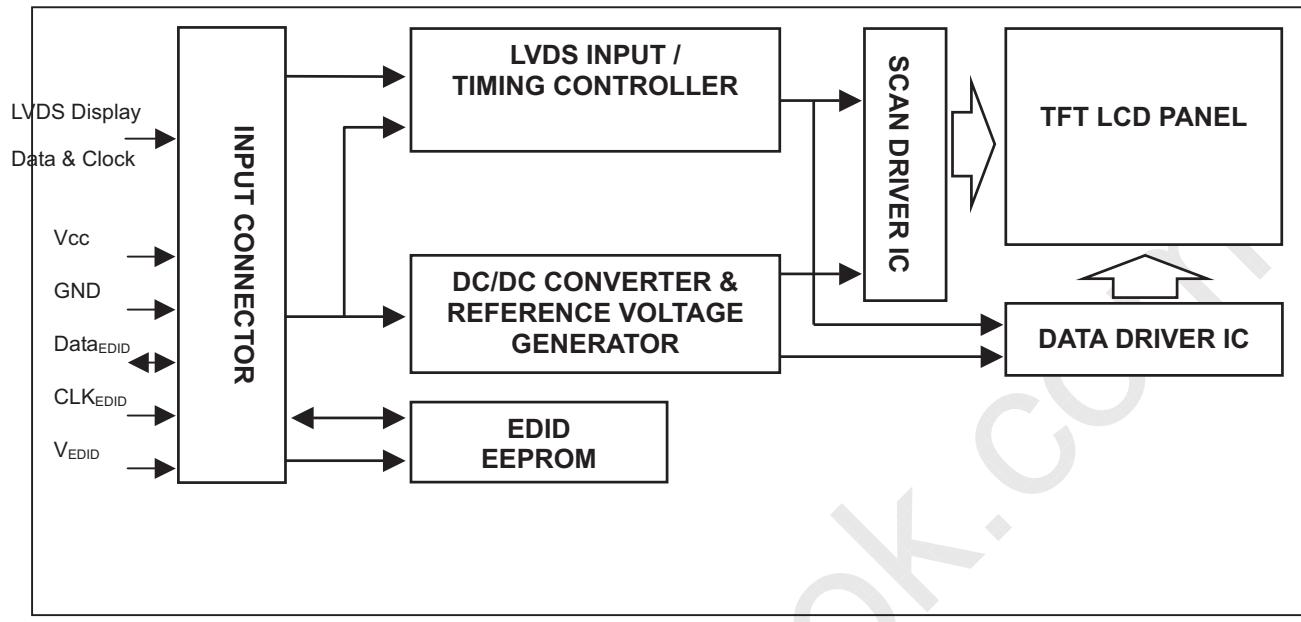
Active Area

Note (4) The parameters of LVDS signals are defined as the following figures.

Single Ended**Differential**

4. BLOCK DIAGRAM

4.1 TFT LCD MODULE



5. INPUT TERMINAL PIN ASSIGNMENT

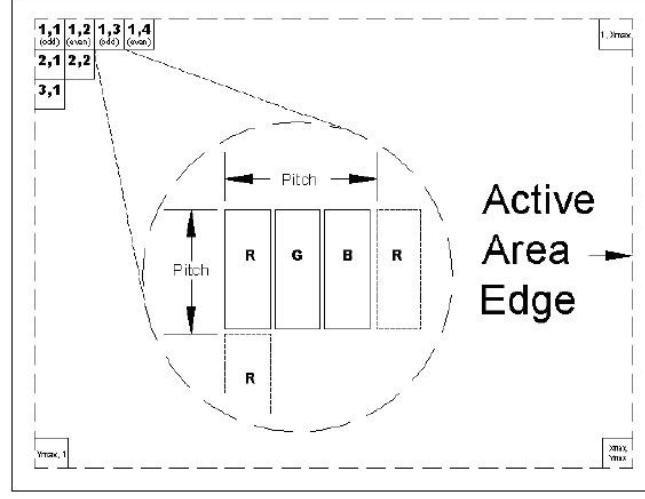
5.1 TFT LCD MODULE

Pin	Symbol	Description	Polarity	Remark
1	Vss	Ground		
2	Vcc	Power Supply +3.3 V (typical)		
3	Vcc	Power Supply +3.3 V (typical)		
4	V _{EDID}	DDC 3.3V Power		DDC 3.3V Power
5	NC	Non-Connection		
6	CLK _{EDID}	DDC Clock		DDC Clock
7	DATA _{EDID}	DDC Data		DDC Data
8	Rxin0-	LVDS Differential Data Input	Negative	R0~R5, G0
9	Rxin0+	LVDS Differential Data Input	Positive	
10	Vss	Ground		
11	Rxin1-	LVDS Differential Data Input	Negative	G1~G5, B0, B1
12	Rxin1+	LVDS Differential Data Input	Positive	
13	Vss	Ground		
14	Rxin2-	LVDS Differential Data Input	Negative	B2~B5, DE, Hsync, Vsync
15	Rxin2+	LVDS Differential Data Input	Positive	
16	Vss	Ground		
17	CLK-	LVDS Clock Data Input	Negative	LVDS Level Clock
18	CLK+	LVDS Clock Data Input	Positive	
19	Vss	Ground		
20	NC	Non-Connection		
21	NC	Non-Connection		
22	Vss	Ground		
23	NC	Non-Connection		
24	NC	Non-Connection		
25	Vss	Ground		
26	NC	Non-Connection		
27	NC	Non-Connection		
28	Vss	Ground		
29	NC	Non-Connection		
30	NC	Non-Connection		

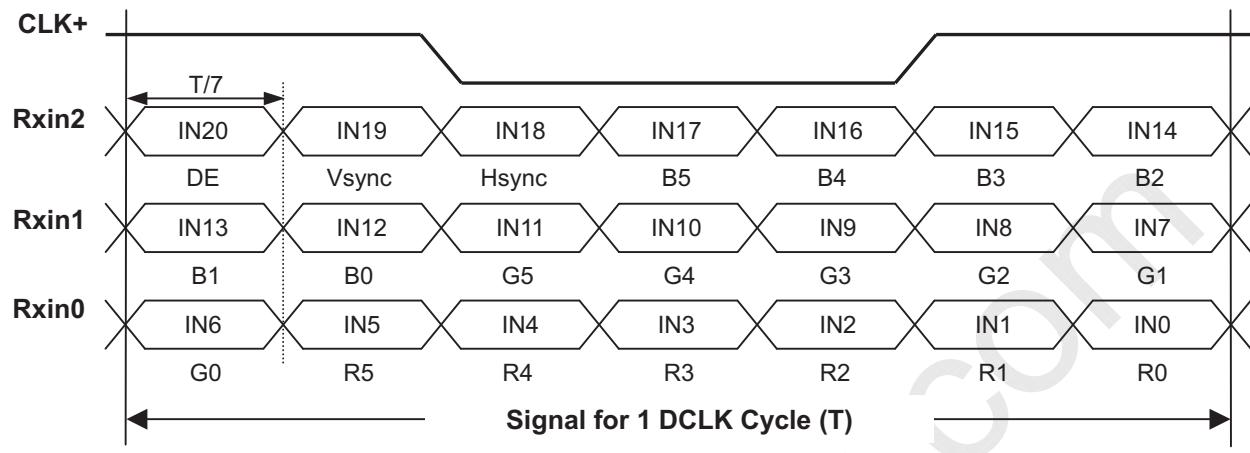
Note (1) Connector Part No.: JAE-FI-XB30S-HF10 or equivalent

Note (2) User's connector Part No: FI-X30M or equivalent

Note (3) The first pixel is odd as shown in the following figure.



5.2 TIMING DIAGRAM OF LVDS INPUT SIGNAL



5.3 COLOR DATA INPUT ASSIGNMENT

The brightness of each primary color (red, green and blue) is based on the 6-bit gray scale data input for the color. The higher the binary input, the brighter the color. The table below provides the assignment of color versus data input.

Color		Data Signal																	
		Red						Green						Blue					
		R5	R4	R3	R2	R1	R0	G5	G4	G3	G2	G1	G0	B5	B4	B3	B2	B1	B0
Basic Colors	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	Green	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
	Blue	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	Cyan	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	Magenta	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	White	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Gray Scale Of Red	Red(0)/Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(1)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Red(2)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	
	Red(61)	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Red(62)	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(63)	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	Green(0)/Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gray Scale Of Green	Green(1)	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	Green(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	
	Green(61)	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0
	Green(62)	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
	Green(63)	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
	Blue(0)/Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Blue(1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Gray Scale Of Blue	Blue(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	
	Blue(61)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
	Blue(62)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
	Blue(63)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1

Note (1) 0: Low Level Voltage, 1: High Level Voltage

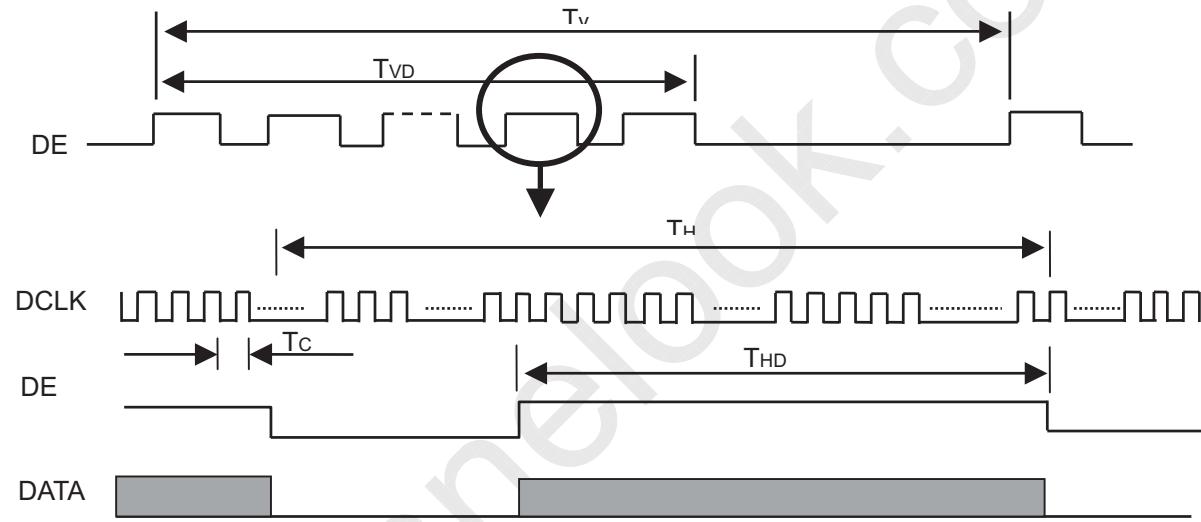
6. INTERFACE TIMING

6.1 INPUT SIGNAL TIMING SPECIFICATIONS

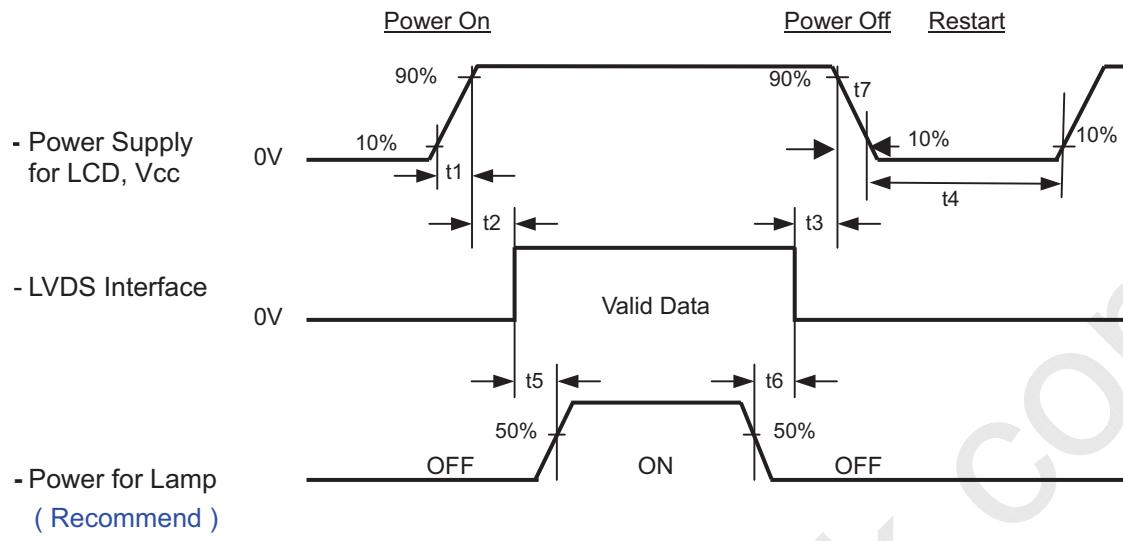
The input signal timing specifications are shown as the following table and timing diagram.

Signal	Item	Symbol	Min.	Typ.	Max.	Unit	Note
DCLK	Frequency	1/Tc	-	71	80	MHz	-
DE	Vertical Total Time	TV	810	823	1000	TH	-
	Vertical Addressing Time	TVD	800	800	800	TH	-
	Horizontal Total Time	TH	1360	1440	1600	Tc	-
	Horizontal Addressing Time	THD	1280	1280	1280	Tc	-

INPUT SIGNAL TIMING DIAGRAM



6.2 POWER ON/OFF SEQUENCE



Timing Specifications:

$$0.5 < t1 \leq 10 \text{ msec}$$

$$0 < t2 \leq 50 \text{ msec}$$

$$0 < t3 \leq 50 \text{ msec}$$

$$t4 \geq 500 \text{ msec}$$

$$t5 \geq 200 \text{ msec}$$

$$t6 \geq 200 \text{ msec}$$

Note (1) Please follow the power on/off sequence described above. Otherwise, the LCD module might be damaged.

Note (2) Please avoid floating state of interface signal at invalid period. When the interface signal is invalid, be sure to pull down the power supply of LCD Vcc to 0 V.

Note (3) The Backlight inverter power must be turned on after the power supply for the logic and the interface signal is valid. The Backlight inverter power must be turned off before the power supply for the logic and the interface signal is invalid.

Note (4) Sometimes some slight noise shows when LCD is turned off (even backlight is already off). To avoid this phenomenon, we suggest that the Vcc falling time is better to follow $5 \leq t7 \leq 300 \text{ ms}$.

7. OPTICAL CHARACTERISTICS

7.1 TEST CONDITIONS

Item	Symbol	Value	Unit
Ambient Temperature	T _a	25±2	°C
Ambient Humidity	H _a	50±10	%RH
Supply Voltage	V _{CC}	3.3	V
Input Signal	According to typical value in "3. ELECTRICAL CHARACTERISTICS"		
Inverter Current	I _L	6	mA
Inverter Driving Frequency	F _L	55	KHz

7.2 OPTICAL SPECIFICATIONS

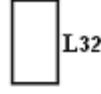
The relative measurement methods of optical characteristics are shown as below. The following items should be measured under the test conditions described in 7.1 and stable environment shown in Note (6).

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	Note		
Color Chromaticity	Red	θ _x =0°, θ _y =0° CS-1000T Standard light source "C"	Typ -0.03	0.646	Typ +0.03	-	(0),(6)		
				0.344		-			
	Green			0.283		-			
				0.591		-			
	Blue			0.131		-			
				0.124		-			
	White			0.324		-			
				0.365		-			
Center Transmittance	T%		8.15	8.75	-		(1), (8)		
Contrast Ratio	CR		500	800	-	-	(1), (3)		
Response Time	T _R	θ _x =0°, θ _y =0°	-	1.3	8	ms	(4)		
	T _F		-	3.7	12	ms			
Transmittance uniformity	δT%	θ _x =0°, θ _y =0° USB2000	-	1.25	1.4	-	(1), (7)		
Viewing Angle	Horizontal	CR≥10 USB2000	θ _x +	50	60	-	Deg. (1), (2) (6)		
			θ _x -	50	60	-			
	Vertical		θ _y +	30	40	-			
			θ _y -	50	60	-			

7.3 Flicker Adjustment

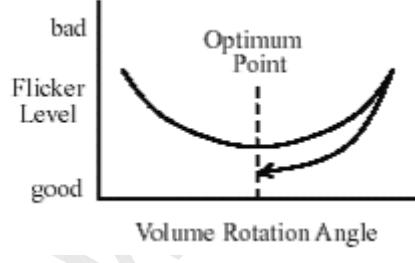
(1) Adjustment Pattern: 1H2V checker pattern as follows.

R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B



(2) Adjustment Method:

Flicker should be adjusted by turning the volume for flicker adjustment by the ceramic driver. It is adjusted to the point with least flickering of the whole screen. After making it surely overrun at once, it should be adjusted to the optimum point.

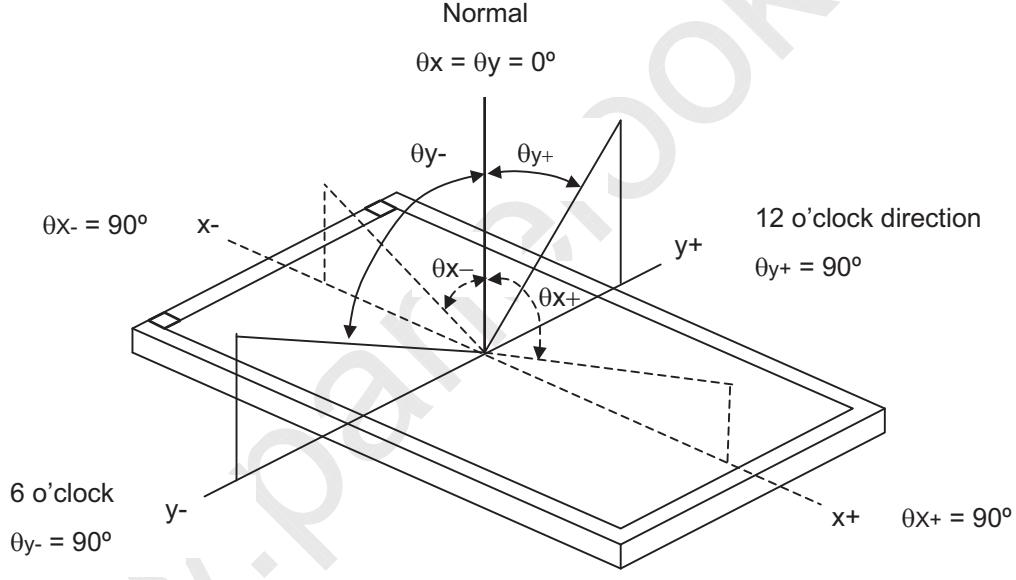


Note (0) Light source is the standard light source "C" which is defined by CIE and driving voltages are based on suitable gamma voltages. The calculating method is as following :

1. Measure Module's and BLU's spectrums. White is without signal input and R, G, B are with signal input. BLU is supplied by CMO.
2. Calculate cell's spectrum.
3. Calculate cell's chromaticity by using the spectrum of standard light source "C"

Note (1) Light source is the BLU which is supplied by CMO and driving voltages are based on suitable gamma voltages. White is without signal input and R, G, B are with signal input. SPEC is judged by CMO's golden sample .

Note (2) Definition of Viewing Angle (θ_x , θ_y):



Note (3) Definition of Contrast Ratio (CR):

The contrast ratio can be calculated by the following expression.

$$\text{Contrast Ratio (CR)} = L_{63} / L_0$$

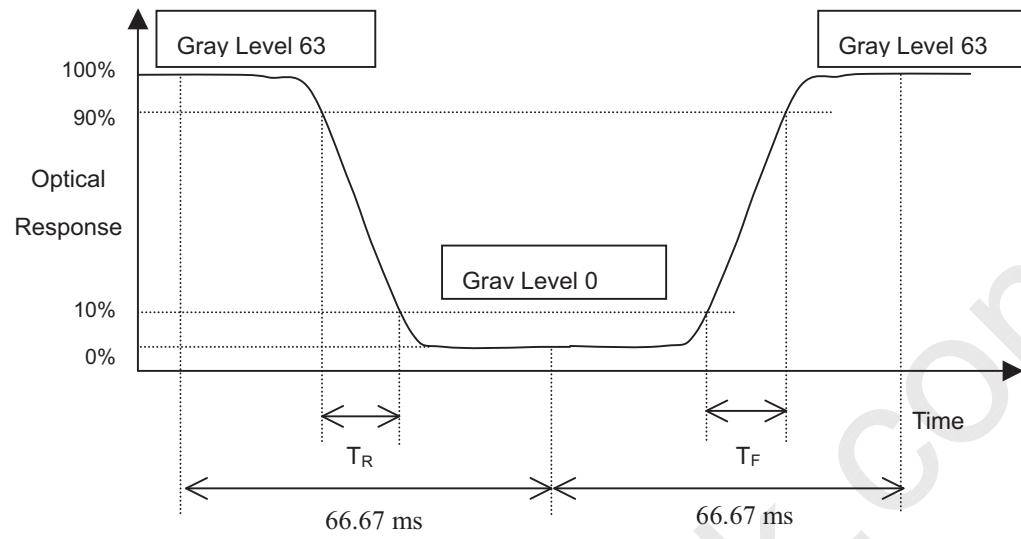
L63: Luminance of gray level 63

L 0: Luminance of gray level 0

$$\text{CR} = \text{CR (5)}$$

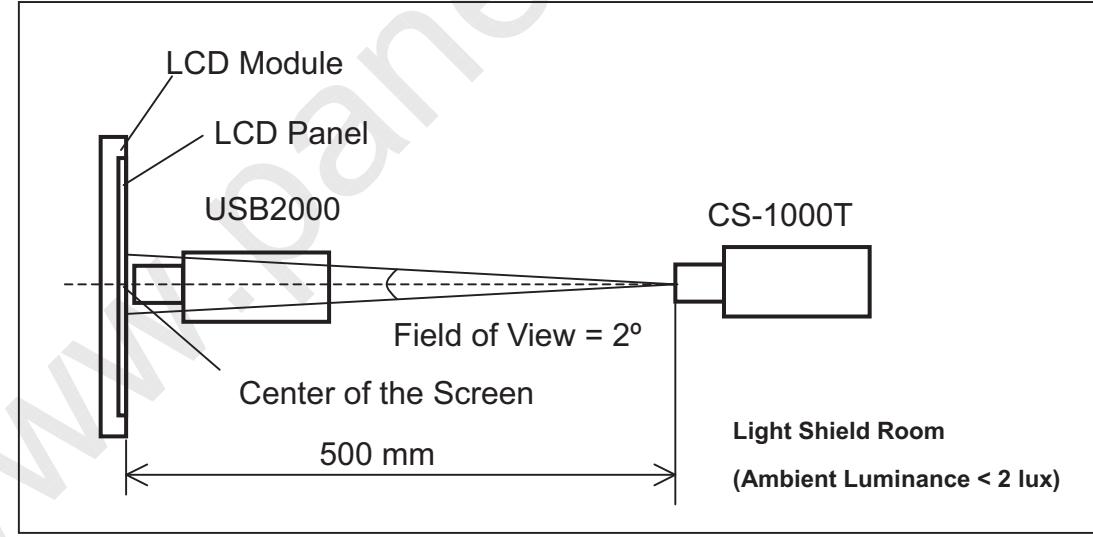
CR (X) is corresponding to the Contrast Ratio of the point X at Figure in Note (7).

Note (4) Definition of Response Time (T_R , T_F):



Note (6) Measurement Setup:

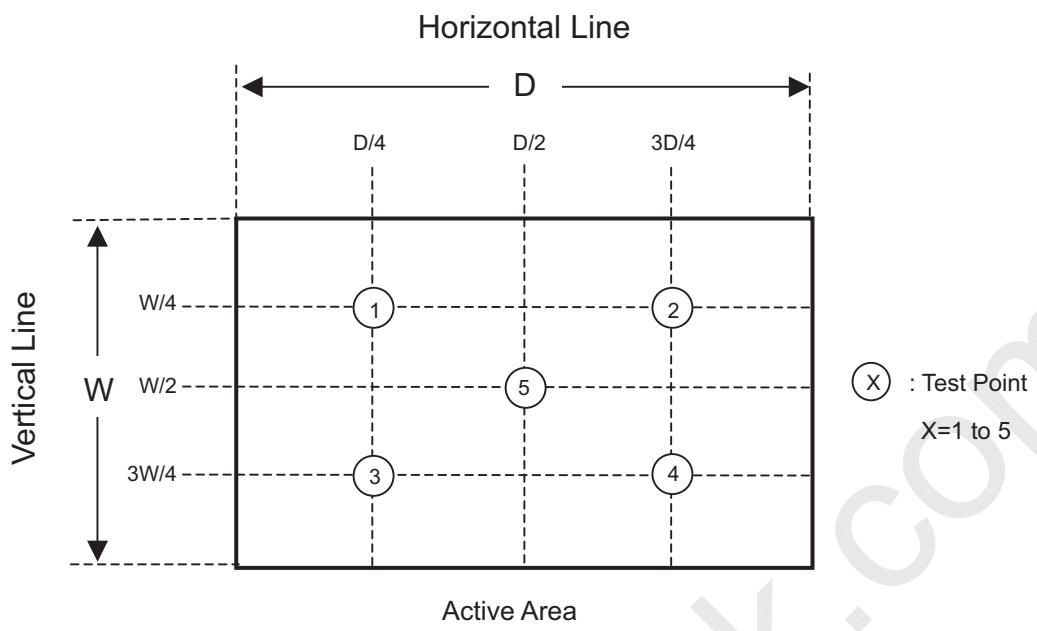
The LCD module should be stabilized at given temperature for 20 minutes to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 20 minutes in a windless room.



Note (7) Definition of Transmittance Variation ($\delta T\%$):

Measure the transmittance at 5 points

$$\delta T\% = \frac{\text{Maximum } [T\%(1), T\%(2), \dots T\%(5)]}{\text{Minimum } [T\%(1), T\%(2), \dots T\%(5)]}$$



Note (8) Definition of Transmittance(T%):

Module is without signal input.

BLU is Supplied by CMO .

$$\text{Transmittance} = \frac{\text{Luminance of LCD module}}{\text{Luminance of backlight}} * 100\%$$

8. PACKAGING

8.1 PACKING SPECIFICATIONS

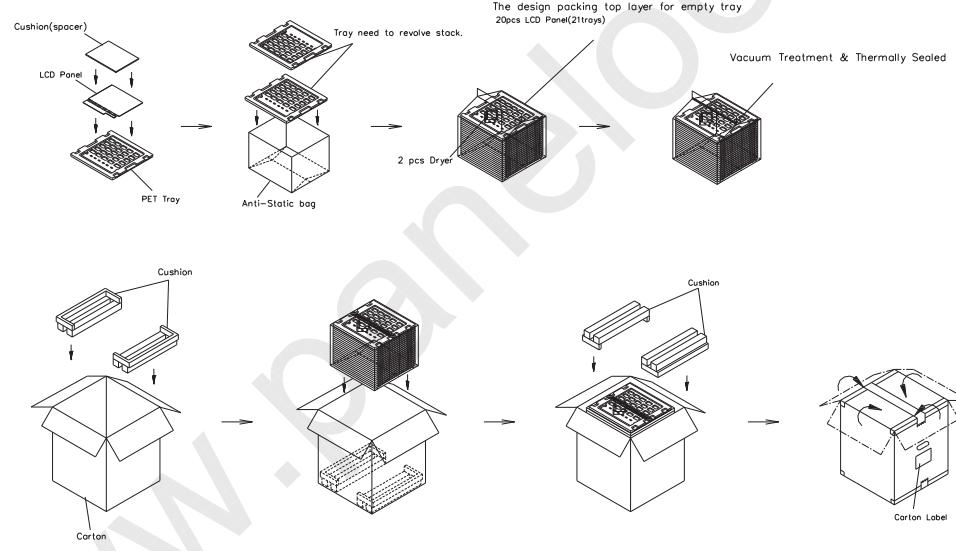
- (1) 20 open cells / 1 Box
- (2) Box dimensions: 524mm(L) X 432mm(W) X 445mm(H)
- (3) Weight: approximately 11.436Kg (20 open cells per box)

8.2 PACKING METHOD

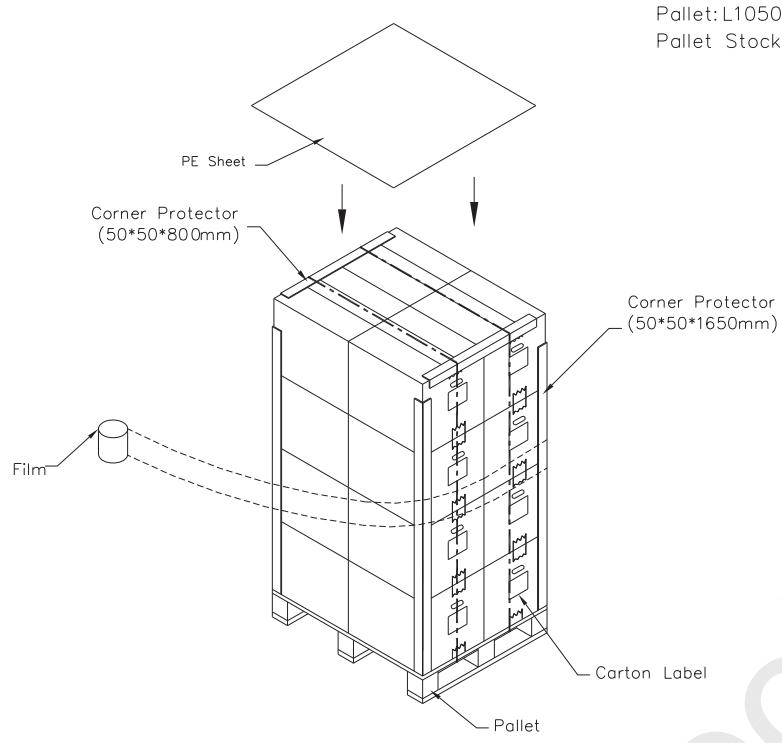
- (1) Carton Packing should have no failure in the following reliability test items

Test Item	Test Conditions	Note
Packing Vibration	ISTA STANDARD Random, Frequency Range: 1 – 200 Hz Top & Bottom: 30 minutes (+Z), 10 min (-Z), Right & Left: 10 minutes (X) Back & Forth 10 minutes (Y)	Non Operation

- (2) Packing method.

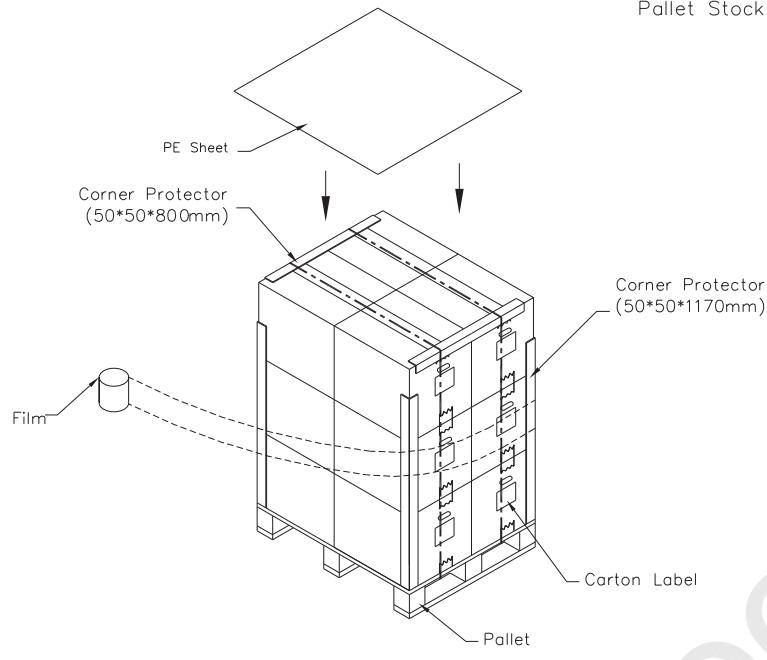


- (1) 20 LCD+PCBA/1 box
- (2) Carton dimensions : 524(L)x432(W)x445(H)mm
- (3) Weight : approximately 10.88kg(20 Cells per box).



Pallet: L1050*W870*H145mm
Pallet Stock Dim: L1050*W870*H1925mm

Pallet: L1050*W870*H145mm
Pallet Stock Dim: L1050*W870*H1480mm





Approval

9. DEFINITION OF LABELS

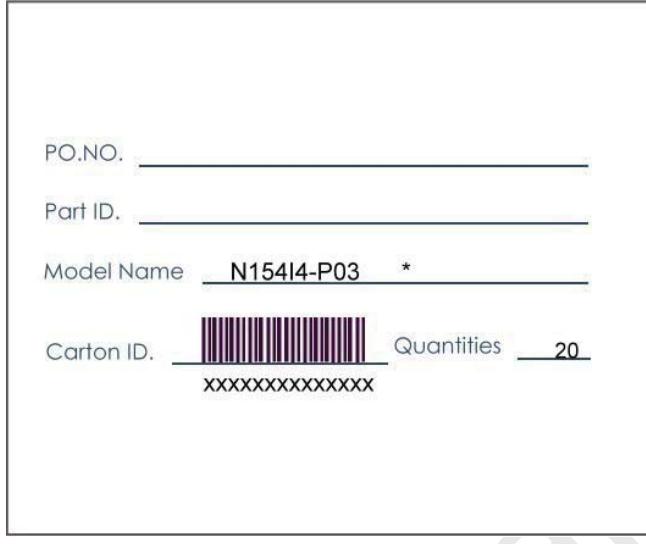
9.1 CMO PANEL LABEL

The barcode nameplate is pasted on each cell as illustration for CMO internal control.



9.2 CARTON LABEL

The barcode nameplate is pasted on each box as illustration, and its definitions are as following explanation



- (a) Model Name: N154I4 -P03
- (b) Carton ID: CMO internal control
- (c) Quantities: 20

10. PRECAUTIONS

10.1 ASSEMBLY AND HANDLING PRECAUTIONS

- (1) Do not apply rough force such as bending or twisting to the product during assembly.
- (2) To assemble backlight or install module into user's system can be only in clean working areas. The dust and oil may cause electrical short or worsen the polarizer.
- (3) It's not permitted to have pressure or impulse on the module because the LCD panel will be damaged.
- (4) Always follow the correct power sequence when the product is connecting and operating. This can prevent damage to the CMOS LSI chips during latch-up.
- (5) Do not pull the I/F connector in or out while the module is operating.
- (6) Use a soft dry cloth without chemicals for cleaning, because the surface of polarizer is very soft and easily scratched.
- (7) It is dangerous that moisture come into or contacted the product, because moisture may damage the product when it is operating.
- (8) High temperature or humidity may reduce the performance of module. Please store this product within the specified storage conditions.
- (9) When ambient temperature is lower than 10°C may reduce the display quality. For example, the response time will become slowly.

10.2 SAFETY PRECAUTIONS

- (1) If the liquid crystal material leaks from the panel, it should be kept away from the eyes or mouth. In case of contact with hands, skin or clothes, it has to be washed away thoroughly with soap.
- (2) After the product's end of life, it is not harmful in case of normal operation and storage.

NOTE:
1. GENERAL TOLERANCE : ± 0.2 mm.
2. ** MARKS THE DESIGN CRITICAL DIMENSIONS.
3. (P) MARKS THE PROCESS CRITICAL DIMENSIONS.

SCALE 8:1

SLATE 81

1

Drawer	Julie Lien	Material	TBD	Sheet	1 / 1
Designer	Julie Lien	Date	21-Jun-2006	Scale	1:1
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SCALE 4:1

A technical drawing of a mechanical assembly, likely a bracket or frame. The drawing shows a central vertical column with various cutouts and a base plate. Key dimensions are labeled: a total width of 22.3 at the top, a top horizontal distance of 13.3, a vertical height of 15.1, a vertical distance of 10.95, and a vertical distance of 4.35. There are also several cross-hair and leader line labels, including 'P', 'Q', 'R', 'S', and 'T', pointing to specific features like holes and the base plate.

Technical drawing of a circuit board layout. The drawing shows a central rectangular area with various internal components and connections. Key dimensions and labels include:

- Width of the central rectangular area: 58.3
- Height of the central rectangular area: 20.09
- Width of the left vertical strip: 13.3
- Width of the right vertical strip: 45.08
- Width of the top horizontal strip: 59.4
- Width of the bottom horizontal strip: 33.12
- Length of the bottom horizontal strip: 20.75
- Width of the central horizontal strip: 31.3
- Width of the leftmost vertical strip: 5.37
- Width of the rightmost vertical strip: 15
- Label "Active Area 3312X207" is located on the left side.
- Label "SEE DETAIL A" is located in the upper right area, pointing to a circular callout.
- Callout "A" shows a detailed view of a component with a width of 31.3 and a height of 20.09.
- Callout "B" shows a detailed view of a component with a width of 5.37 and a height of 15.

This technical diagram shows a cross-section of a building's interior. The structure is divided into several levels and rooms. Labels are present in the upper portion of the diagram:

- 55.3729 (top left)
- 55.3725 (top center)
- 55.3725 (middle center)
- 55.3725 (bottom center)
- 55.3729 (bottom left)

The diagram includes various architectural details such as walls, windows, and structural supports.

SEE DETAIL E

A technical drawing showing a vertical structure. A horizontal line extends from the left side of the structure. A dimension line with arrows at both ends spans the width of the structure, labeled '1.85 <DLB>'. Below this, another dimension line with arrows spans the width of the structure, labeled '0.15 ±0.1 <Beveling>'. The drawing includes some internal lines and a small circle at the top center.

Diagram illustrating the measurement of a point on a coordinate system. The horizontal axis is labeled 2.55 ± 0.3 . A vertical line extends from this point to the vertical axis, with a tick mark at 0.35 (Max).

Technical drawing of a polarizer component. The drawing shows a central horizontal line with various dimensions and features:

- Top dimension: 0.3 ± 0.3
- Middle dimension: 0.15 ± 0.1 (labeled "(Beveling)" to the right)
- Bottom dimension: 0.35 (Max)
- Bottom-most dimension: 0.7 ± 0.3
- Right side dimensions: 0.215 (labeled "(Polarizer CF)" and "(Polarizer TFT)" below)
- Left side detail callout: "SEE DETAIL D" with a leader line pointing to a small circular feature on the left edge.

DETAIL
SCALE 8:1 E

DETAIL D
SCALE 8:1

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